

Application No.: 10/074,792
Amendment Dated: August 5, 2004
Reply to Final Office Action of: May 12, 2004

MAT-6660US2

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1-12. (Cancelled).

13. (Currently Amended) A multilayer ceramic substrate comprising:

a ceramic substrate having a through hole with a conductive material therein;
a first conductive pattern having a convex via having a step, and being formed on said ceramic substrate by a transfer printing technology through an intaglio printing using a flexible resin substance;

an insulation layer formed on said first conductive pattern; and

a second conductive pattern electrically connected to said first conductive pattern by said via, said via embedded into said second conductive pattern and said conductive material of said ceramic substrate being in contact with said via.

14. (Cancelled).

15. (Previously Presented) The multilayer ceramic substrate of claim 13, wherein a meshed pattern is provided in a part of said conductive pattern.

16. (Previously Presented) The multilayer ceramic substrate of claim 13, wherein a shield pattern is provided at an outer edge of said conductive pattern.

17. (Previously Presented) The multilayer ceramic substrate of claim 13, wherein said ceramic substrate is provided with a through hole filled with an electroconductive substance and burned, and said via is disposed on the through hole.

18. (Previously Presented) The multilayer ceramic substrate of claim 13, further comprising a dielectric layer formed on a part of said ceramic substrate.

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19. (Previously Presented) The multilayer ceramic substrate of claim 13, further comprising an LSI chip mounted on a part of one of said first and second conductive patterns with the face down and electrically connected.

20. (Previously Presented) The multilayer ceramic substrate of claim 13, further comprising an LSI chip mounted on a part of one of said first and second conductive patterns with the face down and electrically connected through an electroconductive paste applied on the top of a fine bump provided on one of said first and second conductive patterns, said fine bump formed by using a second groove which is disposed on said intaglio at a place corresponding to a pad of said LSI chip.

21. (Previously Presented) The multilayer ceramic substrate of claim 13, further comprising an LSI package mounted on a part of one of said first and second conductive patterns with the face down and electrically connected through a lattice of lands with a pitch of not larger than 0.8mm, said lattice provided on one of said first and second conductive patterns.

22-28. (Cancelled).

29. (Previously Presented) The multilayer ceramic substrate of claim 13, wherein said first conductive pattern being a transfer of an intaglio plate.

30. (Cancelled).

31. (New) The multilayer ceramic substrate of claim 13, wherein said via extends above a top surface of said insulation layer.